

# PRINTER RUSH

(PTO ASSISTANCE)

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[RUSH] MESSAGE: Page 5, line 15 of the specification list an  
Attorney Docket No. without a serial  
No.

Thank You

[XRUSH] RESPONSE: corrected

10/696,888

See Attachment

INITIALS: RP

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

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541-715 4197

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techniques are used to generate alternate-angle representations of input image data 16.

In one embodiment, for example, given an orthogonal grid of data points, bi-linear interpolation can be used to compute a new data value for any arbitrary coordinate position within the orthogonal grid. As such, the alternate-angle representation constitutes an orthogonal grid that has been rotated so as to define a new set of data point coordinates that are angled and superimposed on top of the orthogonal input data grid. Thus, values for image data at each coordinate in the non-orthogonal grid are computed by bi-linear interpolation from the orthogonal array of input image data. In another embodiment, other resampling techniques, such as nearest neighbor or bi-cubic interpolation, may be used to generate alternate-angle representations of input image data 16.

Techniques for generating alternate-angle representations of input image data are described, for example, in U.S. Patent Application ~~Attorney Docket No.~~ <sup>10/696888</sup> ~~200314885~~, filed on even date herewith, entitled "Generating And Displaying Spatially Offset Sub-Frames On Different Types Of Grids", assigned to the assignee of the present invention and incorporated herein by reference.

In one embodiment, image data subsets 18 are oriented at non-orthogonal angles. For example, image data subset 181 is oriented at approximately 30 degrees, image data subset 182 is oriented at approximately 45 degrees, and image data subset 183 is oriented at approximately 60 degrees. In another embodiment, image data subsets 18 are oriented at orthogonal and non-orthogonal angles. For example, image data subset 181 is oriented at approximately zero degrees, image data subset 182 is oriented at approximately 45 degrees, and image data subset 183 is oriented at approximately 60 degrees.

In one embodiment, light source 30 generates a light beam 32 of white light and source optics 40 split light beam 32 into three separate light beams 321, 322, and 323. In addition, source optics 40 direct light beams 321, 322, and 323 to respective light modulators 501, 502, and 503. More specifically, in one embodiment, source optics 40 split light beam 32 into the colors red, green, and blue. As such, light beam 321 includes a red light beam directed to light